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INFORMATION REPORT

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COUNTRY Hungary

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SUBJECT Hungarian Power Stations

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SUPPLEMENT TO
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THIS IS UNEVALUATED INFORMATION

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1. The following figures represent the thermal efficiencies of the main Hungarian power stations:

a. Ajka	10 - 21 per cent
b. Dánhida	38 " "
c. Tatabánya	25 - 26 " "
d. Budapest-Kelenföld (which burns mainly brown coal from the Esztergom- Dorog area with 6,500 calories)	22 - 24 " "
e. Matravideki	24 - 26 " "
 2. The new power station planned at Mohács will use Pécs black coal, and will have an estimated thermal efficiency of about 30 per cent.
 3. The public power stations in Hungary supply 65 per cent of the total electric power production, the industrial power plants, 35 per cent.
 4. The Dánhida-Budapest high tension line has a normal transmission voltage of 15,000 volts. This is distributed to the main sub-stations, where it is transformed to 10,000 volts. The 10,000-volt cable network inside Budapest is carried to local sub-stations within the city where it is transformed:
 in the industrial area to 3,000 volts,
 in the residential area to 1,000 volts.
This is further transformed inside the houses as follows:
 On the Buda side
 1st, 2nd, 3rd, and 12th Districts to 110 A.C.
 11th District partly to 220 A.C., and partly to 110 A.C.
 22nd District to 220 A.C.

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On the Pest side

4th District partly to 110 A.C., and partly to 220 A.C.
 5th District partly to 110 D.C., partly to 110 A.C., and partly to 220 A.C.
 6th, 7th, 8th, and 9th Districts to 110 A.C.
 10th District partly to 220 A.C., and partly to 110 A.C.
 13th, 14th, 15th, 16th, 17th, 18th, 19th, and 20th Districts to 220 A.C.
Csepel
 21st District to 220 A.C.

5. The normal frequency in Hungary is 50 cycles. In Kecskemét and the whole industrial area round Ózd, it is 42 cycles.
6. The long-distance high tension lines, Bányhida-Budapest and Bányhida-Győr, have an adequate load-carrying capacity. The former line is the most efficient one in Hungary.
7. The general situation with regard to planned new transmission lines is as follows:
 - a. Ajka - Győr
Construction not yet started as the plans are not finished.
 - b. Matravideki - Salgotarjan - under construction.
 - c. Matravideki - Diosgyőr - Ózd
Planned, but not yet under construction.
 - d. Matravideki - Budapest - completed.
 - e. Ajka - Pécs and Tatabánya - Veszprém
Present situation not known.
8. Bányhida is the main power station which supplies current for the electric railway line Budapest-Iggyeshalom and it has a capacity of 98,000 KW. The sub-stations supplying this line are:

Győr	Komárom
Tatabánya	Bicske

 Each has a capacity of about 6 - 8,000 KW.
9. The Budapest-Hatvan railway line, when electrified, will be supplied by the main power station of Matravideki, and the sub-stations of Gődöllő and Hatvan.
10. Plans are being made for the development of Hungary's hydroelectric resources; two large power stations are being built on the river Tisza. The first, on which work has already commenced, is at Tiszainoka. The second is to be at Tiszalök. The planned capacity of each is between 100,000 and 150,000 KW.
11. Information about the main power stations is as follows:
 - a. Ajka: Capacity - about 65,000 KW.
Generating plant - built in 1928, has a Babcock and Wilcox boiler; condition good.
Fuel - Ajka brown coal (nearly black), 8,000 calories.
 - b. Bányhida: Capacity - 98,000 KW.
Generating plant - built in 1922, has a Babcock and Wilcox boiler and is in very good condition.
Fuel - brown coal (not very good quality), 6,500 calories.
 - c. Tatabánya: Capacity - 45,000 KW.
Generating plant - built 1932, and is in very good condition.

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- d. Salgotarjan: Capacity - 25,000 KW.
Location - The power station forms part of the Rimamurany Steel Works, and is located north of the railway station.
- e. Budapest - Kelenföld:
Capacity - 115,000 KW.
Generating plant - steam; very good condition.
Fuel - Dorog coal, about 7,500 calories.
- f. Budapest - Csepel:
Capacity - about 25,000 KW.
Generating plant - Very modern. About three months ago, it was equipped with two new turbo-generating units, one delivered by the Budapest-Ganz Factory. 25X1
- g. Matravideki: Capacity - about 35,000 KW today, but estimated 95,000 KW when it is completed in 1951.
Generating plant - There will be three generating units. The first was delivered by Brown Boveri a few years ago; the other two are being manufactured by the Budapest-Ganz Factory.

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